

Gravimetric Yield by Constant Mass?

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Determination of radiochemical yield by gravimetric recovery of stable carriers is a widely used traditional technique when radioactive tracers are not available or their use is disadvantageous. While it is necessary to dry the sample to constant mass for accurate determination of chemical recovery, this very elementary step is not easily achievable. Depending on the amount of carrier added to the sample and the amount recovered, uncertainty in determining a constant mass can lead to analytical errors of up to twenty percent. This presentation will discuss techniques developed to determine the dry weight of the sample and make recommendations of the limitations and applicability of determination of radiochemical yield by gravimetry.